

Sheet 1 of 5

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

06132/041002

Serial No.

09/881,752

Applicant

Harold Kleanthous et al.

Filing Date

June 18, 2001

Group

Not Yet Assigned

IDS Filed

October 17, 2001

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
180	5,116,821	05/26/92	Randall et al.			
	5,128,140	07/07/92	Chapura et al.			
	5,258,178	11/02/93	Cordle et al.			
	5,447,923	09/05/95	Catrenich et al.			
	5,476,669	12/19/95	Borody			
	5,538,729	7/23/96	Czinn			
	5,514,660	05/07/96	Zopf et al.			
	5,563,039	10/08/96	Goeddel et al.			
	5,567,594	10/22/96	Calenoff			
	5,610,060	03/11/97	Ward et al.			
	5,620,964	04/15/97	Roth et al.			
	5,676,950	10/14/97	Small, Jr. et al.			
	5,679,769	10/21/97	Danishefsky et al.			
	5,753,630	05/19/98	Zopf et al.			
*	5,837,240	11/17/98	Lee et al.			
*	5,972,336	10/26/99	Michetti et al.			
*	6,290,962 B1	09/18/01	Michetti et al.			

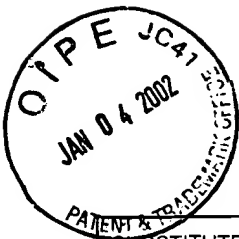
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
VBP	WO 91/09049	27.06.91	PCT			
	WO 93/18150	16.09.93	PCT			
	WO 94/09823	11.05.94	PCT			
	WO 95/22987	31.08.95	PCT			
	WO 95/33482	14.12.95	PCT			
	WO 96/33732	31.10.96	PCT			
	WO 97/03359	30.01.97	PCT			
	WO 97/03360	30.01.97	PCT			
	WO 97/19098	29.05.97	PCT			
	WO 97/11182	27.03.97	PCT			
	WO 97/12908	10.04.97	PCT			
	WO 97/12909	10.04.97	PCT			
	WO 97/37044	09.10.97	PCT			
	WO 97/47646	18.12.97	PCT			
	WO 98/18323	07.05.98	PCT			
	WO 96/38475	05.12.96	PCT			
	WO 96/40893	19.12.96	PCT			
✓	676,474	95	Europe			
	JP 07222590	95	Japan			

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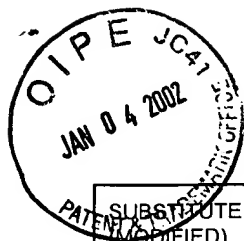
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

✓	Bazillou et al., "Serum Antibody Response to the Superficial and Released Components of <i>Helicobacter pylori</i> ," Clin. and Diag. Lab. Immun. 1(3):310-317 (1994).
	Borén et al., "Attachment of <i>Helicobacter pylori</i> to Human Gastric Epithelium Mediated by Blood Group Antigens," Science 262:1892-1895 (1993).
	Borody et al., "Omeprazole enhances efficacy of triple therapy in eradicating <i>Helicobacter pylori</i> ," Gut 37:477-481 (1995).
	Bukanov et al., "Ordered Cosmid Library and High-Resolution Physical-Genetic Map of <i>Helicobacter pylori</i> Strain NCTC11638," Mol. Microbiology 11(3):509-523 (1994).
	Bult et al., "Complete Genome Sequence of the Methanogenic Archaeon, Methanococcus Jannaschii," Science 273:1058-1073 Abstract (1996).
	Clayton et al., "Sensitive Detection of <i>Helicobacter pylori</i> by Using Polymerase Chain Reaction," Journal of Clinical Microbiology 30:192-200 (1992).
	Czinn et al., "Oral immunization against <i>Helicobacter pylori</i> ," Infection and Immunity 59:2359-2363 (1991).
	D'Ellos et al., "T Helper 1 Effector Cells Specific for <i>Helicobacter pylori</i> in the Gastric Antrum of Patients with Peptic Ulcer Disease," The Journal of Immunology 158:962-967 (1997).
	Doig et al., "Identification of Surface-Exposed Outer Membrane Antigens of <i>Helicobacter pylori</i> ," Infection and Immunity 62:4526-4533 (1994).
	Drouet et al., "Partial Characterization of an External Polysaccharide of <i>Helicobacter pylori</i> by Using an Immunoglobulin M Monoclonal Antibody," Infection and Immunity 61:2732-2736 (1993).
	Dunkley et al., "Development of an Animal Model to Test a <i>Helicobacter pylori</i> Vaccine," Microbiology Ecol. Health and Disease 4:S148 Abstract (1991).
	Farokhnia, "Antibody Specific for a Plasmid-Encoded Protein of <i>Helicobacter Pylori</i> ," Thesis, Grad. School of The Texas Women's University, Department of Biology, p. 1-30.
	Fauchere et al., "Adherence of <i>Helicobacter pylori</i> Cells and Their Surface Components to HeLa Cell Membranes," Microbial Pathogenesis 9:427-439 (1990).
	Ferrero et al., "Recombinant Antigens Prepared from the Urease Subunits of <i>Helicobacter</i> spp.: Evidence of Protection in a Mouse Model of Gastric Infection," Infection and Immunity 62:4981-4989 (1994).
	Graham et al., "Effect of Triple Therapy (Antibiotics plus Bismuth) on Duodenal Ulcer Healing," Annals of Internal Medicine 115:266-269 (1991).
✓	Haas et al., "TnMax - a versatile mini-transposon for the analysis of cloned genes and shuttle mutagenesis," Gene 130:23-31 (1993).

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DATE CONSIDERED

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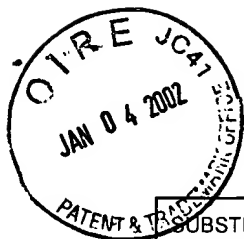
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

✓	Heap et al., "Immunisation and Gastric Colonisation with <i>Helicobacter Felis</i> ," Microb. Ecol. Health and Disease 4:S118 Abstract (1994).
✓	Husson et al., "Iron Acquisition by <i>Helicobacter pylori</i> : Importance of Human Lactoferrin," Infection and Immunity 61:2694-2697 (1993).
✓	Illingworth et al., "Siderophore Production and Iron-regulated Envelope Proteins of <i>Helicobacter pylori</i> ," Zbl. Bakt. 280:113-119 (1993).
✓	Kaplan, "Autogenous Vaccination Against <i>Helicobacter pylori</i> ," South African Medical Journal 83:922-92 (1993).
✓	Lee et al., "Oral immunization with recombinant <i>Helicobacter pylori</i> urease induces secretory IgA antibodies and protects mice from challenge with <i>Helicobacter felis</i> ", The Journal of Infectious Diseases 172:161-172 (1995).
✓	Mohammadi et al., " <i>Helicobacter</i> -Specific Cell-Mediated Immune Responses Display a Predominant Th1 Phenotype and Promote a Delayed-Type Hypersensitivity Response in the Stomachs of Mice," The Journal of Immunology 156:4729-4738 (1996).
✓	Monath et al., "Progress Towards a Vaccine Against <i>Helicobacter pylori</i> ," American J. Gastroenterology 89:1393 Abstract (1994).
✓	Monath et al., "Development of Recombinant <i>Helicobacter pylori</i> Urease as an Oral Vaccine: Current Status," Gut 37 (Suppl. 1):A52, 205 (1995).
✓	Myers et al., "Oral Immunization with Recombinant Urease Confers Long-Lasting Immunity," Gut 39 (Suppl. 2):A44, 1B:24 (1996).
✓	Nakao et al., "Antibacterial Properties of Lansoprazole Alone and in Combination with Antimicrobial Agents against <i>Helicobacter pylori</i> ," Eur. J. Clin. Microbiol. Infect. Dis. 14:391-399 (1995).
✓	Robinson et al., "Protection against a lethal influenza virus challenge by immunization with a haemagglutinin-expressing plasmid DNA", Vaccine 11:957-960 (1993).
✓	Robinson et al., "Use of direct DNA inoculations to elicit protective immune responses", Vaccines 93, "Use of Direct DNA Inoculations to Elicit Protective Immune Responses," Cold Spring Harbor Laboratory Press, 311-315 (1993).
✓	Sherburne et al., " <i>Helicobacter pylori</i> Expresses a Complex Surface Carbohydrate, Lewis X," Infection and Immunity 63:4564-4568 (1995).
✓	Taylor et al., "Construction of a <i>Helicobacter pylori</i> Genome Map and Demonstration of Diversity at the Genome Level," J. Bacteriol. 174(21):6800-6806 (1992).
✓	Thijs et al., "Efficacy and Side Effects of a Triple Drug Regimen for the Eradication of <i>Helicobacter pylori</i> ," Scand. J. Gastroenterol. 28:934-938 (1993).

EXAMINER

DATE CONSIDERED

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	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)
	Tomb et al., "The Complete Genome Sequence of the Gastric Pathogen <i>Helicobacter pylori</i> ," Nature 388:539-547 (1997).
	Ulmer et al., "Heterologous protection against influenza by injection of DNA encoding a viral protein", Science 259:1745-1749 (1993).
	Wadstrom, "Microbial Adhesion: New Concepts for Development of Antiadhesion Strategies to Combat Bacterial Infections," Acta Microbiologica Hungarica 38:164-165 (1991).
	Wilson et al., "2.2 Mb of Contiguous Nucleotide Sequence from Chromosome III of <i>C. elegans</i> ," Nature 368:32-38 Abstract (1994).
	Haas et al., U.S. Serial No. 08/749,051, filed 11/14/96.
	Haas et al., U.S. Serial No. 08/831,309, filed 4/1/97.
	Haas et al., U.S. Serial No. 08/834,705, filed 4/1/97.
	Kleanthous et al., U.S. Serial No. 09/831,310, filed 4/1/01.
	Kleanthous et al., U.S. Serial No. 09/881,752, filed 6/18/01.
	Kleanthous et al., U.S. Serial No. 08/834,666, filed 4/1/97.
	Kleanthous et al., U.S. Serial No. 09/882,227, filed 6/15/01.
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